

RESEARCH, DEVELOPMENT & TECHNOLOGY TRANSFER QUARTERLY PROGRESS REPORT

Wisconsin Department of Transportation
DT1241 02/2011

INSTRUCTIONS:

Research project investigators and/or project managers should complete a quarterly progress report (QPR) for each calendar quarter during which the projects are active.

WisDOT research program category: <input type="checkbox"/> Policy research <input type="checkbox"/> Other <input checked="" type="checkbox"/> Wisconsin Highway Research Program <input type="checkbox"/> Pooled fund TPF#		Report period year: 2014 <input checked="" type="checkbox"/> Quarter 1 (Jan 1 – Mar 31) <input type="checkbox"/> Quarter 2 (Apr 1 – Jun 30) <input type="checkbox"/> Quarter 3 (Jul 1 – Sep 30) <input type="checkbox"/> Quarter 4 (Oct 1 – Dec 31)
Project title: Performance of Pile Supported Sign Structures		
Project investigator: Andrew Boeckmann	Phone: (573) 884-7613	E-mail: boeckmanna@missouri.edu
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WisDOT project ID: 0092-14-02	Other project ID:	Project start date: 8/8/2013
Original end date: 2/8/2015	Current end date: 2/8/2015	Number of extensions: 0

Project schedule status:

☒ On schedule ☐ On revised schedule ☐ Ahead of schedule ☐ Behind schedule

Project budget status:

Total Project Budget	Expenditures Current Quarter	Total Expenditures	% Funds Expended	% Work Completed
\$99,999.00	\$15,091.98	\$26,676.65	27%	25%

Project description:

Perform a field load test and numerical modeling of two pile groups to investigate load transfer for sign foundations.

Progress this quarter (includes meetings, work plan status, contract status, significant progress, etc.):

Engineering plans for the sign foundations were created and shared with the technical oversight committee. Also shared with the committee were results of numerical models of the sign foundations. On March 3, 2014, the research team had a conference call with the technical oversight committee to discuss the sign foundation model and engineering plans. The model and plans were subsequently updated to include a higher point of load application above the pile caps. The engineering plans are now in the final stages and are being discussed with the construction subcontractor, Boone Construction Co. Progress was also made securing other details of the testing, including quotes for instrumentation and hydraulic equipment for load application.

Anticipated work next quarter:

Work in the upcoming quarter will include construction of the test foundations and most likely conducting the test. Plans will be finalized with the contractor before setting a construction schedule. Instrumentation and data acquisition supplies will be prepared to coincide with the construction schedule. After the concrete for the piles caps has cured sufficiently, the test will be performed.

Circumstances affecting project or budget:

Currently, work on the project is underway and is being performed consistent with the research plan and project budget.

Attach / insert Gantt chart and other project documentation

The Gantt chart from the research plan is included below. Currently the research team is working on Tasks 1 and 2. The literature review of Task 1 is nearly complete, and the research team is wrapping up the planning phases of the field research of Task 2. The project is on schedule, consistent with the Gantt chart.

Task	Project Month																	
	Aug-13	Sep-13	Oct-13	Nov-13	Dec-13	Jan-14	Feb-14	Mar-14	Apr-14	May-14	Jun-14	Jul-14	Aug-14	Sep-14	Oct-14	Nov-14	Dec-14	Jan-15
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18
1. Literature Review																		
2. Field Research																		
3. Data Analysis																		
4. Final Report																		
Draft Final Report Submitted October 31, 2014																		
WisDOT Review																		
Report Revisions & Final Submittal																		
Final Final Report Submitted January 31, 2015																		

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Staff receiving QPR:	Date received:
Staff approving QPR:	Date approved: